IN THE CLAIMS

1. (**currently amended**) A rotary head drum apparatus, comprising:

a rotary drum **having a stator side and a rotor side**;

at least two heads oppositely disposed at two positions different by 180° on the rotary drum;

a switch positioned on the **rotor side of the** rotary drum and connected to said heads for selecting one of said heads thereby forming a circuit with the selected head and short-circuiting another head of said heads **based on a rotation position of the rotary drum**; and

a rotary transformer of one channel for transferring signals of the selected head, wherein:

said rotary transformer has a rotor side winding divided into two winding portions that are opposite to said two heads.

2. (Original) The rotary head drum apparatus as set forth in claim 1, wherein:

said two heads are reproducing heads.

3. (Original) The rotary head drum apparatus as set forth in claim 2, further comprising:

two recording heads, wherein:

said rotary transformer has another rotor side winding divided into two winding portions that are opposite to said two recording heads.

4. (Original) The rotary head drum apparatus as set forth in claim 1, wherein:

said two heads are recording heads.

5. (**currently amended**) A magnetic recording and/or reproducing apparatus of helical scan type for recording and/or reproducing signals, said magnetic recording and/or reproducing apparatus having a rotary head drum apparatus, comprising:

a rotary drum **having a stator side and a rotor side**;

two heads oppositely disposed at two positions different by 180° on the rotary drum;

a switch positioned on the **rotor side of the** rotary drum and connected to said heads for selecting one of said two heads thereby forming a circuit with the selected head and

short-circuiting another head of said heads **based on a rotation position of the rotary drum**; and

a rotary transformer of one channel for transferring the signals of selected head, wherein:

said rotary transformer has a rotor side winding divided into two winding portions that are opposite to said two heads.

6. (Original) The magnetic recording and/or reproducing apparatus as set forth in claim 5, wherein:

said two heads of said rotary drum are reproducing heads.

7. (Original) The magnetic recording and/or reproducing apparatus as set forth in claim 6, further comprising:

two recording heads, wherein:

said rotary transformer has another rotor side winding divided into two winding portions that are opposite to said two recording heads.

8. (Original) The magnetic recording and/or reproducing apparatus as set forth in claim 5, wherein:

said two heads of said rotary drum are recording heads.

9. (new) The rotary head drum apparatus as set forth in claim 1 having a ratio of rotary transformers to heads of 1:2.

10. (new) The rotary head drum apparatus as set forth in claim 9 comprising two rotary transformers and four heads.

11. (new) The magnetic recording and/or reproducing apparatus as set forth in claim 5 having a ratio of rotary transformers to heads of 1:2.

12. (new) The magnetic recording and/or reproducing apparatus as set forth in claim 12 comprising two rotary transformers and four heads.

13. (new) The rotary head drum apparatus as set forth in claim 1 comprising two switches positioned on the rotor side of the rotary drum.

14. (new) The magnetic recording and/or reproducing apparatus as set forth in claim 12 comprising two switches positioned on the rotor side of the rotary drum.

15. (new) The rotary head drum apparatus as set forth in claim 1, wherein the rotor side switch forms a circuit with one head and short-circuits another head when the rotary drum is rotated through an angle of about 180°.

16. (new) The magnetic recording and/or reproducing apparatus as set forth in claim 5, wherein the rotor side switch forms a circuit with one head and short-circuits another head when the rotary drum is rotated through an angle of about 180°.